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David D. Langan, Thomas J. Scott

 March 1992 **Proceedings of the 1992 ACM/SIGAPP symposium on Applied computing: technological challenges of the 1990's**

 Full text available: pdf(676.05 KB) Additional Information: [full citation](#), [references](#), [index terms](#)
**2** [Product Review: BRU 2000 for X11](#)

Garrett Smith

December 1997 **Linux Journal**
 Full text available: html(8.65 KB) Additional Information: [full citation](#), [references](#), [index terms](#)
**3** [PC Notes](#)

Eugene Styer

July 1997 **ACM SIGICE Bulletin**, Volume 23 Issue 1
 Full text available: pdf(938.83 KB) Additional Information: [full citation](#), [abstract](#)

Now in segment ten we look at mass storage: disks, tapes and CD-ROMs.

**4** [Tar and Taper for Linux: Learn to use tar and the friendly taper archival tools.](#)

Yusuf Nagree

February 1996 **Linux Journal**
 Full text available: html(33.29 KB) Additional Information: [full citation](#), [index terms](#)
**5** [The SNet model: access, security and e-services for students](#)

Anand Padmanabhan

 September 2003 **Proceedings of the 31st annual ACM SIGUCCS conference on User services**

 Full text available: pdf(313.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper will explore the SNet model that Hunter College of the City University of New York developed and implemented. During the Spring of 2002, CUNY as a central organization (3rd largest in the country) envisioned a plan and strategy to enhance e-




services to all their students, faculty and administrators. From this 'master' vision, Hunter College designed and derived the SNet model to provide efficient and effective services to students. This model not only looks at just providing eServices ...

Keywords: SNet, communication, eServices, email, higher education, information technology, model, wireless

6 Review: The HP SureStore ultrium 230 tape drive

Tanner Andrews

December 2001 **Linux Journal**, Volume 2001 Issue 92

Full text available:  [html\(7.26 KB\)](#) Additional Information: [full citation](#)



7 High speed on-line backup when using logical log operations

David B. Lomet

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data**, Volume 29 Issue 2

Full text available:  [pdf\(220.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Media recovery protects a database from failures of the stable medium by maintaining an extra copy of the database, called the backup, and a media recovery log. When a failure occurs, the database is "restored" from the backup, and the media recovery log is used to roll forward the database to the desired time, usually the current time. Backup must be both fast and "on-line", i.e. concurrent with on-going update activity. Conventional online backup sequentially copies ...

8 Towards a more effective way of teaching a cybersecurity basics course

Rose Shumba

June 2004 **ACM SIGCSE Bulletin , Working group reports from ITiCSE on Innovation and technology in computer science education**, Volume 36 Issue 4

Full text available:  [pdf\(262.95 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)



The Cybersecurity Basics course is an interdisciplinary course for the Criminology, Management Information Systems and Computer Science students at IUP. The course introduces computer security by focusing on host security. This paper describes laboratory exercises developed as part of a project to augment and improve on the teaching of the Cybersecurity Basics course. Nine Linux-based laboratory exercises were developed. A poster paper, based on the developed laboratory exercises was presented a ...

Keywords: cybersecurity, exercises, security, tools

9 How should applications be developed?: an analysis of traditional, user, and microcomputer development approaches

Mary R. Sumner

September 1985 **ACM SIGMIS Database**, Volume 17 Issue 1

Full text available:  [pdf\(899.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)



In his text, *Application Development without Programmers*, James Martin argues that many of the problems of traditional systems development, including long development cycles, formal requirements specification, and formal maintenance procedures, can be overcome by providing users with the tools to develop their own applications. In the environment Martin describes, users will use report and application generators to make queries and to generate reports from existing databases. Working with ...

10 Measurement: Automatically inferring patterns of resource consumption in network traffic



Cristian Estan, Stefan Savage, George Varghese


August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications**Full text available:  pdf(260.43 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Internet service model emphasizes flexibility -- any node can send any type of traffic at any time. While this design has allowed new applications and usage models to flourish, it also makes the job of network management significantly more challenging. This paper describes a new method of traffic characterization that automatically groups traffic into minimal clusters of conspicuous consumption. Rather than providing a static analysis specialized to capture flows, applications, or network-to ...

Keywords: data mining, network monitoring, traffic measurement

11 An Approach to Preserving Sufficient Correctness in Open Resource Coalitions

Orna Raz, Mary Shaw

November 2000 **Proceedings of the 10th International Workshop on Software Specification and Design**Full text available:  pdf(359.58 KB)Additional Information: [full citation](#), [abstract](#) [Publisher Site](#)

Most software that most people use most of the time needs only moderate assurance of fitness for its intended purpose. Unlike high-assurance software, where the severe consequences of failure justify substantial investment in validation, everyday software is used in settings in which occasional degraded service or even failure is tolerable. Unlike high-assurance software, which has been the subject of extensive scrutiny, everyday software has received only meager attention concerning how good it ...

Keywords: Medium-assurance software, everyday software, fitness for task, fault tolerance, open resource coalitions, sufficient correctness, software homeostasis, distributed component-based software

12 Operational management of time-sharing systems


Richard L. Linde, Paul E. Chaney

January 1966 **Proceedings of the 1966 21st national conference**Full text available:  pdf(859.69 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As computer time-sharing systems have evolved from a research activity to an operational activity, and have increased in size and complexity, it has become clear that significant problems occur in controlling the use of such systems. These problems have evidenced themselves in computer scheduling, program capability constraints, and the allotment of auxiliary storage. The general-purpose systems of today have all experienced these problems. However, the severity of the overload c ...

13 Progress report: Brown university instructional computing laboratory

Marc H. Brown, Robert Sedgewick

January 1984 **ACM SIGCSE Bulletin , Proceedings of the fifteenth SIGCSE technical symposium on Computer science education**, Volume 16 Issue 1Full text available:  pdf(1.15 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An instructional computing laboratory, consisting of about 60 high-performance, graphics-based personal workstations connected by a high-bandwidth, resource-sharing local area network, has recently become operational at Brown University. This hardware, coupled with an innovative courseware/software environment, is being used in the classroom in an attempt to radically improve the state of the art of computer science pedagogy. This paper describes the current state of the project. T ...

14 File compression: a useful technique for saving time and resources

H. A. Lasus

October 1989 **Proceedings of the 17th annual ACM SIGUCCS conference on User Services**Full text available:  pdf(494.23 KB) Additional Information: [full citation](#), [index terms](#)**15** A specialized data management system for parallel execution of particle physics codes

Jean L. Bell

June 1988 **ACM SIGMOD Record , Proceedings of the 1988 ACM SIGMOD international conference on Management of data**, Volume 17 Issue 3Full text available:  pdf(988.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The specialized data management system described in this paper was motivated by the need for much more efficient data management than a standard database management system could provide for particle physics codes in shared memory multiprocessor environments. The special characteristics of data and access patterns in particle physics codes need to be fully exploited in order to effect efficient data management. The data management system allows parameteric user control over system features n ...

16 Yellow Dog Linux on the iMac


Stew Benedict

August 2000 **Linux Journal**Full text available:  html(22.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A guide to installing and running YDL on a power PC.

**17** Best of Technical SupportAugust 1998 **Linux Journal**Full text available:  html(12.37 KB) Additional Information: [full citation](#), [index terms](#)**18** Backup Strategy


Malcolm Murphy

February 1996 **Linux Journal**Full text available:  html(14.98 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Malcolm tells us which files to backup and how often

**19** Product Review

Daniel Lazenby

November 1998 **Linux Journal**Full text available:  html(7.98 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

QuickStart: Replication & Recovery v1.2: An overview and review of this replication and recovery product

**20** Migrating to Linux, Part 2

Norman M. Jacobowitz, Jim Hebert

September 1998 **Linux Journal**Full text available:  html(19.51 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We continue with our look at converting an office from a commercial operating system to Linux



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Fred A. Gross, James C. Taylor

January 1987 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL: APL in transition**, Volume 17 Issue 4Full text available: pdf(494.57 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article describes an integrated group of utilities distributed about an eleven super-minicomputer network for such purposes as mediating network-wide file backup without user intervention, centralized verification of all archival processes, centralized monitoring and analysis of network and individual node statistics, general system housekeeping, and notification of systems staff of trouble spots (particularly security and system use growth behavior). This facility uses APL (the Data G ...

**22** [The GemStone object database management system](#)

Paul Butterworth, Allen Otis, Jacob Stein

October 1991 **Communications of the ACM**, Volume 34 Issue 10Full text available: pdf(6.60 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** GemStone, database management systems, object-oriented

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